Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Deploying and Managing SD-WAN with Juniper Mist AI (JSDWAN)

CODE:	LENGTH:	PRICE:
JUN_JSDWAN	24 Hours (3 days)	£2,395.00

Description

This three-day, intermediate-level course provides students with the foundational knowledge required to work with Juniper Mist™ WAN Assurance. The course summarizes how Juniper Mist WAN Assurance streamlines the deployment, configuration, and management of Juniper Mist WAN Edge devices in a full hub-and-spoke software-defined WAN (SD-WAN) deployment.
Key topics include a review of fundamental Juniper Mist concepts; the onboarding options for WAN Edge devices; an overview of the supported security features; design principles and steps for implementing basic standalone, multisite standalone, and SD-WAN topologies; the best way to leverage variables and the automation available in Juniper Mist for deploying and scaling the network; how Juniper Mist translates intent into configurations on the Juniper Networks® SRX Series Firewalls and Juniper Networks® SSR Series Routers; how to create custom application and filtering for unique traffic flows; establishing Juniper and third-party secure services edge (SSE) connections; design principles for highly available WAN Edges; and monitoring and troubleshooting WAN Edges in Juniper® SD-WAN driven by Mist AI™.
The labs in this course follow a sequential structure, requiring participants to complete each lab in the specified order. Each lab builds upon concepts and configurations established in the preceding labs, culminating in the creation of an overlay within an SD-WAN deployment. The SSR Series routers are on version 6.3.3-40.r2 to align with the Juniper Validated Design—WAN Edge with the Session Smart Router.

COURSE LEVEL
Deploying and Managing SD-WAN with Juniper Mist AI
is an intermediate-level course.

Objectives

• Describe SD-WAN with Juniper Mist.
• Explain the key concepts and terminology in SD-WAN with Juniper Mist.
• Effectively onboard a WAN Edge device and perform basic configurations.
• Articulate the Juniper Mist intent-driven model.
• Explain how Application Policy influences resource access.
• Explain how Juniper Mist translates intent into configurations for WAN Edge.
• Define and apply SD-WAN with Juniper Mist scaling and variable features.
• Describe how Juniper Mist enables site-to-site connectivity through the overlay.
• Deploy application steering using application identification.
• Effectively onboard a hub and deploy a full hub-and-spoke SD-WAN.
• Configure and deploy a highly available, clustered WAN Edge.
• Define the SD-WAN with Juniper Mist integration workflow for a Secure Services Edge.
• Monitor and troubleshoot your WAN Edge devices.

Audience

This course benefits individuals responsible for implementing, configuring, and maintaining SSR Series Routers and SRX Series Firewall devices deployed as Juniper Mist WAN Edge devices.

Prerequisites

• Intermediate cloud and networking knowledge
• Intermediate understanding of the OSI reference model and the TCP/IP protocol suite
• Familiarity with SSR Series Routers and Secure Vector Routing
• An understanding of SRX Series Firewalls
• Attendees should have taken the *Introduction to Juniper Mist AI* course.

Programme

DAY 1

Module 01: Introduction to SD-WAN with Juniper Mist
• Describe SD-WAN with the Juniper Mist solution
• Define WAN Edge and its role in SD-WAN connectivity
• Outline deployment considerations for SD-WAN with Juniper Mist
Module 02: WAN Assurance Configuration Hierarchy
• Describe the Juniper Mist Intent Model
• Outline WAN Assurance Networks and Applications
• Summarize the hub profile workflow and the WAN Edge Template use cases
Module 03: Networks in SD-WAN with Juniper Mist
• Assess Network as an element to prioritize deployment patterns and workflow
• Examine network elements, including users and indirectly attached network subnets
Module 04: Applications in SD-WAN with Juniper Mist
• Describe Applications
• Explain Traffic Steering in Juniper Mist
• Connect Application Policy to Juniper Mist Intent-Based Networking Elements
Module 05: SD-WAN with Juniper Mist Quick Start
• Explain the onboarding options for a WAN Edge in Juniper Mist
• Explain the basic SD-WAN with Juniper Mist workflow
• Outline device-specific templates
Lab 01: SD-WAN with Juniper Mist Quick Start
Module 06: Application Identification and Discovery
• Outline application identification and discovery in SD-WAN with Juniper Mist
• Describe application identification on SRX Series Firewalls and Premium Analytics
• Describe application identification on Juniper Session Smart Router and Premium Analytics
Module 07: Application Policy and Application Steering
• Define application steering in SD-WAN with Juniper Mist
• Explain how to use AppID to implement application steering
• Define application steering considerations
Lab 02: Application Policy in SD-WAN with Juniper Mist

DAY 2

Module 08: Configuration with WAN Edge Templates
• Outline WAN Edge workflow, design, and settings
• Summarize WAN Edge Template interface configuration
• Compare traffic steering policies for WAN Edge Templates
• Describe WAN Edge application policy
Module 09: Automating and Scaling the Network
• Review WAN Edge Templates
• Explain site variables
• Explain how to import, export, and apply templates
• Explain organization-level application policy
Lab 03: Scaling with Templates and Variables
Module 10: Traditional Routing Configuration in WAN Assurance
• Outline BGP configuration
• Summarize OSPF configuration
• Delineate BGP monitoring workflow
• Describe virtual routing for routes from the default instance
• Explain how to use application policies to route from the default instance
Module 11: SD-WAN with Juniper Mist
• Define SD-WAN
• Explain the SD-WAN overlay for SRX devices
• Explain the SD-WAN overlay for SSR Series Routers
• Outline the WAN Assurance SD-WAN Design Guide
• Explain SD-WAN deployment considerations
Module 12: Hub Profile Configuration
• Outline hub profiles
• Summarize interface configuration in hub profiles
• Relate traffic steering configuration in hub profiles
• Analyze organization-level application policies
• Explain how to create OSPF areas for hub profiles
• Explain how to configure traditional routing policies
Lab 04: SD-WAN with Juniper Mist WAN Assurance

DAY 3

Module 13: Monitoring SD-WAN with Juniper Mist
• Describe how to monitor with WAN Edge details
• Explain how to monitor with WAN Edge Insights
Lab 05: Monitoring SD-WAN with Juniper Mist
Module 14: Troubleshooting SD-WAN with Juniper Mist
• Outline troubleshooting with Marvis in SD-WAN with Juniper Mist
• Outline troubleshooting with SLEs in SD-WAN with Juniper Mist
• Explain Alerts in Juniper Mist
• Review testing tools for troubleshooting in SD-WAN with Juniper Mist
• Explain other tools for troubleshooting in SD-WAN with Juniper Mist
Lab 06: Troubleshooting SD-WAN with Juniper Mist
Module 15: SD-WAN with Juniper Mist with Secure Services Edge
• Describe the Juniper Secure Service Edge Solution
• Explain SD-WAN with Juniper Mist and Juniper Secure Edge integration
• Explain SD-WAN with Juniper Mist and SSE Zscaler integration
Module 16: Cradlepoint Cellular Edges
• Describe Cradlepoint and its integration with Juniper Mist
• Explain how to plan, onboard, and provision the cellular edge
• Explore how to manage and monitor cellular edges in Juniper Mist
Module 17: SD-WAN with Juniper Mist High Availability Design
• Explain the concepts of Session Smart high availability
• Outline the HA deployment workflow
• Outline the WAN Assurance HA Design Guide
Lab 07: High Availability with the Session Smart Router

Follow on courses

RELATED JUNIPER PRODUCTS
SRX Series Firewalls, SSR Series Routers, QFX Series Switches, EX Series Switches, Mist AI

RECOMMENDED NEXT COURSE
Automating Juniper Mist AI Enterprise

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
30 Nov 2026	Virtual Training Class - TP	GMT	English	Instructor Led Online		£2,395.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.